

**DRUG DELIVERY DEVICE AND METHOD  
HAVING COATED MICROPROJECTIONS  
INCORPORATING VASOCONSTRICTORS**

5

**ABSTRACT**

10 A device and method are provided for percutaneous transdermal delivery of a  
biologically active agent. The coating formulation containing the biologically active agent  
and a vasoconstrictor is applied to the skin piercing elements using known coating techniques  
and then dried. The device is applied to the skin of a living animal, causing the  
microprojections to pierce the stratum corneum and to deliver an effective dose of the  
biologically active agent and vasoconstrictor to the animal.